

29/5/13

T.E (EXTC) Sem VI Rev.  
Television & Video Engg.

14 : 1st half.13-shilpa(J)

Con. 9557-13.

GS-1270

(3 Hours)

[Total Marks : 100]

N.B. : (1) Question No. 1 is compulsory.

(2) Attempt any ~~three~~<sup>four</sup> questions out of remaining six questions.

(3) Figures to the right indicate full marks.

(4) Assume suitable data if necessary.

1. (a) List the type of AGC and only describe the basic operation of AGC used in TV Receiver. 5  
(b) What is color burst ? What is the importance of Black poarch in CVS ? 5  
(c) Explain compatibility consideration in TV system. 5  
(d) State the specification of CCIR-B monochrome TV system. 5
2. (a) Explain Interlaced scanning in detail with the help of neat diagram also explain how it is better than sequential scanning. 10  
(b) Draw the neat block diagram of NTSC coder and decoder and explain its functioning. 10
3. (a) Draw neat diagram to indicate sync seperator section in TV system and explain it. 10  
(b) Explain PAL coder system ? How phase error are cancelled in PAL system ? 10
4. (a) Compare Delta gun, PIL and Trinitron colour picture tube. 10  
(b) Give Reason :-  
(i) Why (G-y) signal is not selected for transmission ? 5  
(ii) All TV standards have odd no. and lines. 5
5. (a) With the help of neat sketch, explain the functioning of image orthicon Camera tube. State its drawbacks. 10  
(b) Draw Digital TV receiver system and explain its working. 10
6. (a) What is EIA test pattern ? Draw and explain EIA pattern with utility. 10  
(b) With the help of neat diagram explain the functioning of cable television. 10
7. Write short notes on :- 20  
(a) HDTV  
(b) Flyback transformer  
(c) Cromaticity diagram  
(d) Frequency interleaving.

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